

# Vasiliki Kontomitrou

Environmental engineer  
Quality Manager || Lead Auditor for Quality  
Management Systems (for ISO 9001)

Nationality: Greek  
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## EDUCATION

- 2021 - present **MSc Student in Environmental Catalysis for Pollution and Clean Energy production**  
Hellenic Open University.
- 2017 - 2018 **Certificate of Pedagogical and Teaching Competence**  
School of Pedagogical and Technological Education (ASPETE),  
Pedagogical Training Program (EPPAIK).  
  
**Diploma Thesis:** "Designing and developing a website to awaken environmental awareness among students."  
**Website link:** <https://greenecoeducation.weebly.com/>
- 2012 **Certificate of Energy Building inspection**  
Technological Educational Institute of Crete, Ministry of Environment,  
Energy & Climate change.
- 2003-2009 **BSc in Natural resources & Environmental engineering**  
Technological Educational Institute of Crete, Department of  
Environmental and Natural Resources Engineering, Chania, Greece.  
  
**Diploma Thesis:** "Airborne Microbial Concentrations and PM10 Levels  
in Air Conditioned Offices".

## PROFESSIONAL EXPERIENCE

- Jan 2013 - present **Technical Scientist**  
Designing and simulating fabrication process procedures for semiconductor devices and circuits. Exploring thin film optical characterization techniques applied to semiconductor materials, such as Spectroscopic Ellipsometry. Contributing to the preparation of both National and European proposals. Actively involved in the implementation of Quality Management Systems (ISO 9001) in the dual roles of a Quality Manager and a Lead Auditor for Quality Management Systems, adhering to the ISO 9001:2015 standards.  
Foundation for Research and Technology - Hellas (FORTH-IESL),  
Microelectronics Research Group (MRG), Heraklion, Crete, Greece
- Mar 2009 - Nov 2012 **Design Engineer- Freelance**  
Fully proficient in CAD systems to generate new drawings, modify existing designs, provide electrical specifications and generally involved in projects throughout the whole production process.
- Dec 2008 **Research assistant - Environmental Geotechnology**  
Magnetic, Resistivity and Electromagnetic survey at Ancient Nikopolis in Epirus.  
FORTH-IMS (Institute for Mediterranean Studies, Crete), Laboratory of Geophysical - Satellite Remote Sensing and Archaeo-environment.

Mar 2008 – **Internship in Department of Environment**

Aug 2008

Preparation of Environmental Impact Assessment for a wide range of projects in the public sector (renewable energy, water projects, road works etc.)

**O.A.N.A.K (Eastern Crete Development Organization), Heraklion - Crete, Department of Environment.**

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**TECHNICAL KNOWLEDGE**

- Experience in software programs simulating fabrication process procedures on semiconductor devices and circuits.
- Experience in designing photolithographic masks.
- Experience in modeling of lithographic processes.
- Experience in semiconductor device modelling.
- Experience in thin film optical characterization in semiconductor materials, Spectroscopic Ellipsometry technique.

**COMPUTER SKILLS**

- Flow Designer, Phoenix Software (Process Flow Visualization)
  - CleWin, Phoenix Software (Photolithographic mask design)
  - Silvaco software (Device Simulation)
  - AutoCAD software (2D, 3D computer-aided design software)
  - PTC Pro Engineer software (3D Design software)
  - Inventor, CAD software (3D Mechanical design software)
  - Matlab software (Data Analysis & Visualization,, Programming & Algorithm Development)
  - Origin software (Data analysis and graphics software)
  - GIS (ESRI -software program of Geographic Information System-)
  - MS Windows, MS Office (Word, Excel, PowerPoint, Microsoft Visio)
  - eQUAL suite, GRC (Governance, Risk and Compliance) software
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**PARTICIPATION IN RESEARCH PROJECTS**

**RADAR**

Heterogeneous 3D integration employ disruptive nanotechnologies for the next generation of smart power RF T/R modules. EPAnEK2014-2020 Operational Programme, Action: RESEARCH-CREATE-INNOVATE

**EINSTEIN**

Experimental and theoretical studies of physical properties of low dimensional quantum nanoelectronic systems.

**Bilateral S & T Cooperation between Greece and Russia**

**NANO-RF**

Carbon Based Smart Systems For wireless applications. FP7

**DECHAD**

Development and Characterization of CNTs and graphene based advanced thermally conductive Adhesives for microsystem integration.

**Bilateral S & T Cooperation between China and Greece**

**HEALTHSONAR**

Development of a device based on ultra-low energy radio (UWB) technology to monitor sleep, gate and main indoor activity including falls.

EPAAnEK2014-2020 Operational Programme, Action: RESEARCH-CREATE-INNOVATE

### **IQUBITS**

Integrated qubits towards Future high-temperature silicon quantum computing hardware Technologies- qubits.

H2020

### **POWERFLEX**

Smart, heterogeneous technological platform extending The power and frequency limits of flexible nanoelectronics

H2020

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## **PUBLICATIONS**

### **PUBLISHED WORK**

#### **Long-term stability of transparent n/p ZnO homojunctions grown by rf-sputtering at room-temperature**

E. Aperathitis, V. Kampylafka, A. Kostopoulos, M. Modreanu, M. Schmidt, E. Gagaoudakis, K. Tsagaraki, V. Kontomitrou, G. Konstantinidis, G. Deligeorgis, G. Kiriakidis, Journal of Materiomics, Volume 5, Issue 3, September 2019, Pages 428-435, DOI: 10.1016/j.jmat.2019.02.006

#### **SU-8 microneedles based dry electrodes for Electroencephalogram**

G. Stavrinidis, K. Michelakis, V. Kontomitrou, G. Giannakakis, M. Sevrisianos, G. Sevrisianos, N. Chaniotakis, Y. Alifragis and G. Konstantinidis, Microelectronic Engineering, Volume 159, 15 June 2016, Pages 114-120, DOI: 10.1016/j.mee.2016.02.062

### **PRESENTATIONS AT INTERNATIONAL CONFERENCES**

#### **Sputtered ZnO nanostructure homojunctions fabricated on room temperature pre-patterned substrates**

G. Deligeorgis, V. Kampylafka, A. Kostopoulos, M. Modreanu, M. Schmidt, E. Gagaoudakis, K. Tsagaraki, V. Kontomitrou, G. Konstantinidis, G. Kiriakidis, E. Aperathitis, 45th International Conference on Micro & Nano Engineering (MNE 2019), 23-26 September 2019, Rhodes Greece

#### **Functional metal oxides for smart and energy autonomous windows**

V. Kampylafka, I. Kortidis, A. Kostopoulos, K. Tsagaraki, V. Kontomitrou, G. Konstantinidis, G. Deligeorgis, E. Gagaoudakis, G. Michail, G. Kiriakidis, M. Modreanu, M. Schmidt, E. Aperathitis, , Silver Jubilee Assembly of Advanced Materials Congress, 24-27 March 2019, Stockholm, Sweden

### **PRESENTATIONS AT NATIONAL CONFERENCES**

#### **Airborne Microbial Concentrations and PM10 Levels in Air Conditioned Offices**

V. Kontomitrou, A. Maragkou, M. Lazaridis, M. Vrachopoulos, and E. Katsivela, E-Proceedings of the European Aerosol Conference 2008 (EAC 2008), Thessaloniki, Greece, Abstract T02A113P

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**LANGUAGES****English language**

University of Westminster, EDEXCEL International, Level B2

**German language**

Goethe Institut, Zertifikat Deutsch, Level B2,  
Staatszertifikat über Sprachkenntniss, Level B2

**SCHOLARSHIPS****Title: "Natural Systems for Wastewater Treatment"**

Technological Educational Institute of Crete, Department of Environmental  
and Natural Resources Engineering, Chania, Greece, ΕΠΕΑΕΚ II, 2008

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